CONTENTS

PAGE

BIEWENER, A. A., DIAL, K. P. AND GOSLOW, G. E. Pectoralis muscle force and power output during flight in the starling 1

HEDENSTRÖM, A. AND ALERSTAM, T. Climbing performance of migrating birds as a basis for estimating limits for fuel-carrying capacity and muscle work 19

TOMINAGA, T. AND NAITOH, Y. Membrane potential responses to thermal stimulation and the control of thermoaccumulation in *Paramecium caudatum* 39

LAUDER, G. V. AND PRENDERGAST, T. Kinematics of aquatic prey capture in the snapping turtle *Chelydra serpentina* 55

CRAWFORD, J. D. Individual and sex specificity in the electric organ discharges of breeding mormyrid fish (*Pollimyrus isidori*) 79

HOFMANN, G. E. AND HAND, S. C. Comparison of messenger RNA pools in active and dormant *Artemia franciscana* embryos: evidence for translational control 103

YOSHIDA, M. AND KOBAYASHI, M. Identified neurones involved in the control of rhythmic buccal motor activity in the snail *Achatina fulica* 117

VALERIO, P. F., KAO, M. H. AND FLETCHER, G. L. Fish skin: an effective barrier to ice crystal propagation 135

FERNÁNDEZ-DE-MIGUEL, F. AND ARÉCHIGA, H. Sensory inputs mediating two opposite behavioural responses to light in the crayfish *Procambarus clarkii* 153

SCHLUND, W. Intra-nasal zinc sulphate irrigation in pigeons: effects on olfactory capabilities and homing 171

WRIGHT, J. C. AND O'DONNELL, M. J. Osmolality and electrolyte composition of pleon fluid in *Porcellio scaber* (Crustacea, Isopoda, Oniscidea): implications for water vapour absorption 189

CHIBA, A., KÄMPER, G. AND MURPHEY, R. K. Response properties of interneurons of the cricket cercal sensory system are conserved in spite of changes in peripheral receptors during maturation 205

LAND, M. F. AND BARTH, F. G. The quality of vision in the ctenid spider *Cupiennius salei* 227

NILSSON, G. E. Evidence for a role of GABA in metabolic depression during anoxia in crucian carp (*Carassius carassius*) 243

NEWLAND, P. L., CATTAERT, D., NEIL, D. M. AND CLARAC, F. Steering reactions as adaptive components of the tail-flip in the spiny lobster *Jasus lalandii* 261

YOUNG, I. S., WARREN, R. D. AND ALTRINGHAM, J. D. Some properties of the mammalian locomotory and respiratory systems in relation to body mass 283

SHORT COMMUNICATIONS

MCFARLANE, I. D., REINSCHEID, R. K. AND GRIMMELIKHUIJZEN, C. J. P. Opposite actions of the anthozoan neuropeptide Antho-RNamide on antagonistic muscle groups in sea anemones 295

ZHENG, X. Y., SPAETH, D. D., HARVEY, W. R. AND WOLFERSBERGER, M. G. 5′-*p*-fluorosulfonylbenzoyladenosine binds to the 28 kDa subunit of larval *Manduca sexta* midgut vacuolar-type ATPase 301

ARSHAVSKY, Y. I., DELIAGINA, T. G., ORLOVSKY, G. N., PANCHIN, Y. V. AND POPOVA, L. B. Interneurones mediating the escape reaction of the marine mollusc *Clione limacina* 307

INFORMATION ABOUT THE JOURNAL